

## iLux® Integrated Lighting System w/Motion Detector

- > Wall-mount integrated lighting and shade control
- > Six channels of dimming or switching
- > Six groups of shade and drape control
- > Supports Cresnet® Occupancy Sensors and Shades<sup>[2]</sup>
- > Linkable for up to 54 lighting channels and 54 shade groups
- > Up to 16 user-settable scenes
- > Seven configurable rocker buttons with customizable label strip
- > Large ON and OFF buttons
- > Flip-up front cover reveals setup controls and programming port
- > Six bargraphs show lighting levels and shade positions
- > Easy setup from front panel or iLux® Designer software
- > Built-in motion detector
- > Supports multipoint control using up to 16 keypads
- > Optional IR remote
- > Master air-gap relay
- > Integrates with control systems via Cresnet
- > Energy saving ASHRAE 90.1/LEED compliant
- > Available in almond, black, or white
- > Expanded load type support via CLS-EXP Series modules
- > CEC Title 24 2013 Compliant

The iLux® CLS-C6M is a complete, integrated lighting system designed for wall mount installation in boardrooms, auditoriums, home theaters, or anywhere versatile and cost-effective control of lighting and shades is required. The Crestron® reputation for innovation and reliability – combined with high-quality integrated dimming, native shade control, configurable rocker buttons, extensive integration ability and many other advanced features – makes iLux the ideal choice for all types of room lighting and shade control applications.

### Six Channel Dimming

The CLS-C6M features six channels of dimming for LED<sup>[1]</sup>, incandescent, magnetic low-voltage, neon/cold cathode, and 2-wire dimmable fluorescent loads. On/off switching of many non-dimmable lighting loads is also possible. Each channel will handle up to 800 watts individually, with a total rating of 1920 watts for the complete unit. Larger loads and additional load types can also be supported using Crestron CLS-EXP Series expansion modules.

### Six Group Shade Control

Using Crestron's networked Shade and Drape Controllers, the CLS-C6M enables versatile control of a roomful of motorized window treatments, screens, and lifts in up to six shade groups. It also supports Crestron Shades that use Cresnet® communications<sup>[2]</sup>.

### Versatile Front Panel Controls

The deceptively clean front panel actually affords an extensive amount of control and customization to suit each unique room application. Large ON and OFF buttons provide instant access to the "On" and "All Off" scenes, while the six main buttons can be set up to recall additional scene presets,



adjust shades, or perform a host of other functions. The buttons' rocker action enables intuitive, tactile control for adjusting lighting levels and shade positions. An additional "Up/Down" button is configurable for a variety of functions, including use as a master lighting or shade control, or as a "shift" button to expand the capabilities of the six main buttons.

With each new scene selection, window shades reposition and lights fade elegantly to their new settings. The selected scene is indicated by a white LED beside each button, and the customizable label strip allows each button to be clearly labeled using Crestron Engraver software or standard 3/8" tape labels. Dimming levels and shade positions are displayed graphically on six green LED bargraphs accessible behind the flip-up front cover. Additional controls and a numeric display hidden beneath the cover enable setup without requiring a PC. Enhanced customization is provided via the PC programming port using iLux Designer software.

### Built-in Motion Detector

The CLS-C6M features a built-in infrared motion detector, enabling automated control based on room occupancy. Lights can be programmed to turn on and shades open automatically when someone enters the room, or turn off and close when the room is left empty.

### Multipoint Keypad Control

Up to 16 Crestron keypads may be connected to a single CLS-C6M, providing versatile multipoint control for rooms with multiple entrances or work areas.

### Multi-Unit Expansion

One CLS-C6M master will support up to 8 additional CLS-C6 or CLS-C6M units, enabling systems of up to 54 lighting zones and 54 shade groups. Commands for typical functions like scene recall, scene off, master dimming, and occupancy status are shared between the CLS-C6(M) units. Each individual unit can still support a complete assortment of local devices including keypads and shade controllers.

# CLS-C6M iLux® Integrated Lighting System w/Motion Detector

## Control System Integration

The CLS-C6M features two separate Cresnet control networks, one for local devices and one for connection to a control system. Connecting the CLS-C6M to a control system allows its functions to be controlled from touch screens, RF wireless remotes, and even computers. The control system interface also enables extensive flexibility for integration with other systems such as security, HVAC and energy management, plus remote management via SNMP and [Crestron Fusion® Enterprise Management Platform](#) applications.

For a solution using Crestron's infiNET™ wireless technology instead of Cresnet, see the [CLS-C6MRF](#).

## SPECIFICATIONS

### Load Ratings

**Dimmer Channels:** 6

**Maximum Per Channel:** 800 Watts/VA (6.6 Amps @ 120 Volts AC)

**Minimum Per Channel:** 15 Watts/VA (0.125 Amps @ 120 Volts AC)

**Module Total:** 1920 Watts/VA (16 Amps @ 120 Volts AC)

**Load Types:** LED<sup>[1]</sup>, Incandescent, Magnetic Low-voltage, Neon/Cold Cathode, 2-Wire Dimmable Fluorescent, & Non-Dim Lighting (also: Electronic Low-voltage, 3- and 4-Wire Fluorescent, High-Inrush Switching, & 277V via CLS-EXP Series expansion modules)

### Power Requirements

100 to 127 Volts AC, 50/60Hz Line Power

### Connections

**LOCAL DEVICES:** (1) 4-pin 5mm detachable terminal block; Cresnet® Master port for local devices including: C2N-DB and CNX-B Series keypads, 16 maximum; C2N-SSC-2, C2N-SDC, and C2N-SDC-DC shade controllers; 16 maximum; Additional CLS-C6M or CLS-C6 units, 8 maximum;

Additional CNPWS-75 or other Cresnet power supply required beyond 4 devices; C2N-SDC-DC always requires an additional power supply

**CONTROL SYSTEM:** (1) 4-pin 5mm detachable terminal block; Cresnet Slave port for connection to a control system

**HOT:** (1) Captive screw terminal<sup>[3]</sup>, line power input

**LOAD1 – LOAD6:** (6) Captive screw terminals<sup>[3]</sup>, dimmer channel outputs 1 – 6

**NEUTRAL:** (1) Captive screw terminal<sup>[3]</sup>

**GROUND:** (1) Captive screw terminal<sup>[3]</sup>

**PC (front):** (1) 3.5mm TRS mini-phone jack, RS-232 Programming port

### Controls

**Buttons 1 – 6:** (6) 3-position rocker pushbuttons; configurable to recall (or toggle recall/off) individual scenes, control shades, or for master lighting or shade control; “scene mastering” option enables manual dimming utilizing rocker button action; also used to adjust lighting levels when in “Lighting” mode and shade positions when in “Shades” mode; additional functionality

configurable via software

**Up/Down Button:** (1) 3-position rocker pushbutton; configurable for master lighting or shade control, or as a “shift” for Buttons 1-6; additional functionality configurable via software

**ON:** (1) pushbutton, recalls “On” scene

**OFF:** (1) pushbutton, turns all lights off

**LIGHTS, SHADES:** (2) Pushbuttons, select “Lights” or “Shades” modes

**SAVE, CANCEL, UP Arrow, DOWN Arrow:** (4) Pushbuttons, navigate and execute setup functions

**Reset:** Recessed miniature pushbutton for hardware reset

**Dimming Ramp Rate:** 5 seconds (default), software adjustable 1 to 10 seconds

**Scene Fade Time:** 2 seconds (default), software adjustable 0 seconds to 99 minutes

### LED Indicators

**Scenes:** (6-white) Correspond with each “Scene” Button

**High/Low:** (2-white) Indicate “Shift” status

**ON:** (1-white) Indicates “On” Scene is selected

**LIGHTS, SHADES:** (2-green) Indicates “Lights” or “Shades” mode is active

**SAVE, CANCEL:** (2-green) Correspond with “Save” and “Cancel” Buttons

**MIN, SEC:** (2-green) Indicates display of “Minutes” or “Seconds”

**1 – 6:** (6-green) 7-Segment bargraphs, indicate lighting levels and shade positions

**Numeric Display:** (2-green) 8-Segment digits, indicates modes and setup values

### IR Receiver

**Reception Frequency:** 36 kHz

Requires CLS-IRHT8 IR remote, sold separately

### Motion Detector

**Type:** Infrared

**Range:** 20 to 30 feet at 4 foot elevation

### Environmental

**Temperature:** 32° to 104°F (0° to 40°C)

**Humidity:** 10% to 90% RH (non-condensing)

### Enclosure

Mounts in a 4-gang electrical box, 3-1/2” deep minimum

### Dimensions

**Height:** 4.48 in (114 mm)

**Width:** 8.89 in (226 mm)

**Depth:** 2.60 in (67 mm)

### Weight

1.43 lb (649 g)

# CLS-C6M iLux® Integrated Lighting System w/Motion Detector

## Standards & Certifications

UL Listed, CE, CEC Title 24 2013 Compliant

## MODELS & ACCESSORIES

### Available Models

**CLS-C6MA:** iLux® Integrated Lighting System w/Motion Detector, Almond  
**CLS-C6MB:** iLux® Integrated Lighting System w/Motion Detector, Black  
**CLS-C6MW:** iLux® Integrated Lighting System w/Motion Detector, White

### Available Accessories

**C2N-CBD-E-A-S:** Cameo® Express Keypad, Standard Mount, Almond Smooth  
**C2N-CBD-E-B-S:** Cameo® Express Keypad, Standard Mount, Black Smooth  
**C2N-CBD-E-W-S:** Cameo® Express Keypad, Standard Mount, White Smooth  
**C2N-CBD-P-A-S:** Cameo® Keypad, Standard Mount, Almond Smooth  
**C2N-CBD-P-A-T:** Cameo® Keypad, Standard Mount, Almond Textured  
**C2N-CBD-P-B-S:** Cameo® Keypad, Standard Mount, Black Smooth  
**C2N-CBD-P-B-T:** Cameo® Keypad, Standard Mount, Black Textured  
**C2N-CBD-P-BRN-S:** Cameo® Keypad, Standard Mount, Brown Smooth  
**C2N-CBD-P-DA-S:** Cameo® Keypad, Standard Mount, Dark Almond Smooth  
**C2N-CBD-P-DSK-T:** Cameo® Keypad, Standard Mount, Dusk Textured  
**C2N-CBD-P-GRY-S:** Cameo® Keypad, Standard Mount, Gray Smooth  
**C2N-CBD-P-IVR-S:** Cameo® Keypad, Standard Mount, Ivory Smooth  
**C2N-CBD-P-LAT-T:** Cameo® Keypad, Standard Mount, Latte Textured  
**C2N-CBD-P-W-S:** Cameo® Keypad, Standard Mount, White Smooth  
**C2N-CBD-P-W-T:** Cameo® Keypad, Standard Mount, White Textured  
**C2N-CBF-P-A-T:** Cameo® Keypad, Flush Mount, Almond Textured  
**C2N-CBF-P-B-T:** Cameo® Keypad, Flush Mount, Black Textured  
**C2N-CBF-P-DSK-T:** Cameo® Keypad, Flush Mount, Dusk Textured  
**C2N-CBF-P-LAT-T:** Cameo® Keypad, Flush Mount, Latte Textured  
**C2N-CBF-P-W-T:** Cameo® Keypad, Flush Mount, White Textured  
**CLS-EXP-DIM:** iLux® Dimmer Expansion Module  
**CLS-EXP-DIMFDB:** iLux® 3-Wire Fluorescent Dimmer Expansion Module  
**CLS-EXP-DIMFLV:** iLux® 0-10V Fluorescent Dimmer Expansion Module  
**CLS-EXP-DIMU:** iLux® Universal Dimmer Expansion Module  
**C2N-DB6-W-S:** Decorator Keypad, 6-Buttons, White Smooth  
**C2N-DB6-A-S:** Decorator Keypad, 6-Buttons, Almond Smooth  
**C2N-DB6B:** Decorator Keypad, 6-Buttons, Black Smooth  
**C2N-DB8-W-S:** Decorator Keypad, 8-Buttons, White Smooth  
**C2N-DB8-A-S:** Decorator Keypad, 8-Buttons, Almond Smooth  
**C2N-DB8B:** Decorator Keypad, 8-Buttons, Black Smooth  
**C2N-DB12-W-S:** Decorator Keypad, 12-Buttons, White Smooth  
**C2N-DB12-A-S:** Decorator Keypad, 12-Buttons, Almond Smooth  
**C2N-DB12B:** Decorator Keypad, 12-Buttons, Black Smooth  
**CSC-ACCN:** Cresnet® Interface to Somfy® ST50 ILT2 Motor  
**CSC-DCCN:** Cresnet® Interface to Crestron® CSM-QMT30 Shades

**CSM-QMT50-DCCN:** Crestron® QMT™ Motor for 38-Inch Roller Shades and Larger, Cresnet®

**C2N-SDC:** Shade and Drape Controller, 120V AC

**C2N-SDC-DC:** Shade and Drape Controller, 24V DC

**C2N-SSC-2:** Somfy® Shade Controller

**CLS-IRHT8:** iLux IR Handheld Remote

**CNPWS-75:** Cresnet Power Supply, 75 Watts

**CNX-B2-W-T:** Designer Keypad, 2-Buttons, White Textured

**CNX-B2-A-T:** Designer Keypad, 2-Buttons, Almond Textured

**CNX-B2-LAT-T:** Designer Keypad, 2-Buttons, Latte Textured

**CNX-B2-DSK-T:** Designer Keypad, 2-Buttons, Dusk Textured

**CNX-B4-W-T:** Designer Keypad, 4-Buttons, White Textured

**CNX-B4-A-T:** Designer Keypad, 4-Buttons, Almond Textured

**CNX-B4-LAT-T:** Designer Keypad, 4-Buttons, Latte Textured

**CNX-B4-DSK-T:** Designer Keypad, 4-Buttons, Dusk Textured

**CNX-B6-W-T:** Designer Keypad, 6-Buttons, White Textured

**CNX-B6-A-T:** Designer Keypad, 6-Buttons, Almond Textured

**CNX-B6-LAT-T:** Designer Keypad, 6-Buttons, Latte Textured

**CNX-B6-DSK-T:** Designer Keypad, 6-Buttons, Dusk Textured

**CNX-B8-W-T:** Designer Keypad, 8-Buttons, White Textured

**CNX-B8-A-T:** Designer Keypad, 8-Buttons, Almond Textured

**CNX-B8-LAT-T:** Designer Keypad, 8-Buttons, Latte Textured

**CNX-B8-DSK-T:** Designer Keypad, 8-Buttons, Dusk Textured

**CNX-B12-W-T:** Designer Keypad, 12-Buttons, White Textured

**CNX-B12-A-T:** Designer Keypad, 12-Buttons, Almond Textured

**CNX-B12-LAT-T:** Designer Keypad, 12-Buttons, Latte Textured

**CNX-B12-DSK-T:** Designer Keypad, 12-Buttons, Dusk Textured

**CRESNET-HP-NP-TL-SP1000:** Cresnet® “High-Power” Control Cable, non-plenum, teal, 1000 ft spool

**CRESNET-HP-NP-TL-SP500:** Cresnet® “High-Power” Control Cable, non-plenum, teal, 500 ft spool

**CRESNET-NP-BK-B500:** Cresnet® Control Cable, non-plenum, black, 500 ft box

**CRESNET-NP-OR-B500:** Cresnet® Control Cable, non-plenum, orange, 500 ft box

**CRESNET-NP-TL-B250:** Cresnet® Control Cable, non-plenum, teal, 250 ft box

**CRESNET-NP-TL-B500:** Cresnet® Control Cable, non-plenum, teal, 500 ft box

**CRESNET-NP-TL-SP1000:** Cresnet® Control Cable, non-plenum, teal, 1000 ft spool

**CRESNET-NP-TL-SP500:** Cresnet® Control Cable, non-plenum, teal, 500 ft spool

**CRESNET-NP-YL-B500:** Cresnet® Control Cable, non-plenum, yellow, 500 ft box

**CRESNET-P-BK-SP500:** Cresnet® Control Cable, plenum, black, 500 ft spool

**CRESNET-P-OR-SP500:** Cresnet® Control Cable, plenum, orange, 500 ft spool

**CRESNET-P-TL-SP1000:** Cresnet® Control Cable, plenum, teal, 1000 ft spool

**CRESNET-P-TL-SP500:** Cresnet® Control Cable, plenum, teal, 500 ft spool

**CRESNET-P-YL-SP500:** Cresnet® Control Cable, plenum, yellow, 500 ft

# CLS-C6M iLux® Integrated Lighting System w/Motion Detector

spool

**GLS-ODT-C-CN:** Dual-Technology Occupancy Sensor with Cresnet®, 2000 Sq. Ft.

**GLS-OIR-C-CN:** Passive Infrared Occupancy Sensor with Cresnet®, 2000 Sq. Ft.

Notes:

1. For a list of compatible ballasts, visit [www.crestron.com/lightingcompatibility](http://www.crestron.com/lightingcompatibility) (PDF)
2. See Available Accessories list for this product for shade motors and interfaces supported.
3. Captive screw terminals accept up to two 22 to 12 AWG (0.34 to 4.0 mm<sup>2</sup>) wires per terminal.

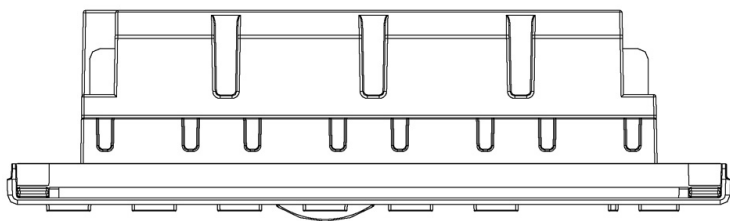
This product may be purchased from an authorized Crestron dealer. To find a dealer, please contact the Crestron sales representative for your area. A list of sales representatives is available online at [www.crestron.com/salesreps](http://www.crestron.com/salesreps) or by calling 800-237-2041.

The specific patents that cover Crestron products are listed online at: [patents.crestron.com](http://patents.crestron.com).

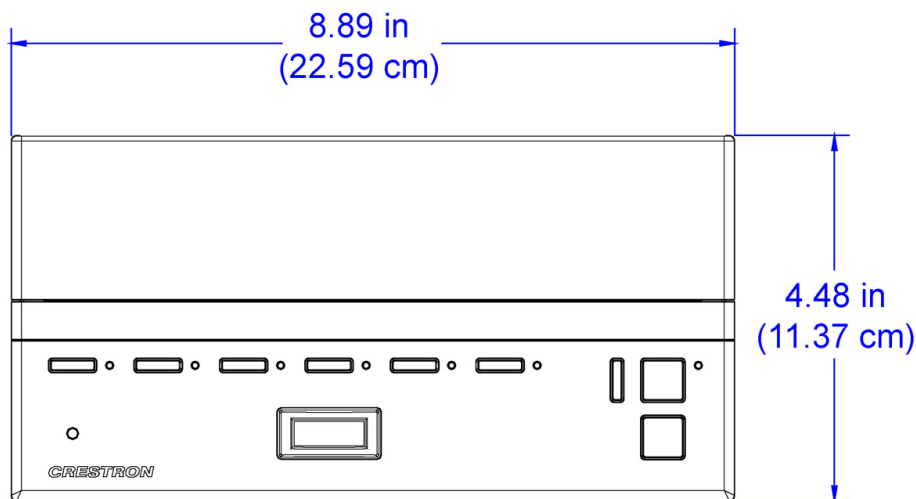
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**Top**



**Front**



**Side**

